



PROJECT DESCRIPTION		B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR			B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		
I. GENERAL		ITEM NO.	QUANTITY	DESCRIPTION	ITEM NO.	QUANTITY	DESCRIPTION
THIS PROJECT INVOLVES THE INSTALLATION OF AN HAZARD IDENTIFICATION BEACON (H.I.B.) WITH SIGNING (S5-1 WITH S4-4(1)) ON THE NORTHBOUND AND SOUTHBOUND APPROACH OF MD 355 FOR THOMAS JOHNSON MIDDLE SCHOOL. THE HIB'S WILL FLASH DURING MORNING AND AFTERNOON SCHOOL HOURS.		1001	1 EACH	MAINTENANCE OF TRAFFIC	8069	2 EACH	F & I PHOTOCELL
THIS PROJECT IS LOCATED IN FREDERICK COUNTY.		2001	2 C.Y.	TEST PIT EXCAVATION	8072	2 EACH	INSTALL 30' BREAKAWAY LIGHTING POLE AND BASE (CUT TO 16' AND CAP)
MD 355 RUNS IN A NORTH-SOUTH DIRECTION.		6001	16 S.F.	F & I 4 IN. CONCRETE SIDEWALK	8084	4 EACH	F & I BLACK FACED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
A. EQUIPMENT TO BE FURNISHED BY ADMINISTRATION		NEG.	2 EACH	2" BLIND COUPLING FOR TRAFFIC SIGNAL STRUCTURE, WELDED AND GALVANIZED	8088	1 EACH	REMOVE EXISTING SIGN AND SUPPORT - GROUND MOUNT
QUANTITY	DESCRIPTION	NEG.	2 EACH	T-BASE FOR 30' LIGHTING POLE			
2 EACH	CONTROLLER ASC II W/ NIC AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A "G" SIZE CABINET	NEG.	2 EACH	INSTALL 30' BREAKAWAY LIGHTING POLE, (INCLUDING T-BASE/ANCHORS) CUT TO 16'			
2 EACH	30' BREAKAWAY LIGHTING POLE AND BASE (CUT TO 16') BY CONTRACTOR	8001	1.4 C.Y.	F & I CONCRETE FOR FOUNDATION			
64 S.F.	FLAT SHEET ALUMINUM SIGN (YELLOW, ORANGE AND SILVER)	8006	2 EACH	CUT, CLEAN GALVANIZED AND CAP TRAFFIC SIGNAL STRUCTURE			
	2 EACH S5-1 SIGN, 30" x 60", POLE MOUNTED HARDWARE "SCHOOL, SPEED LIMIT, 30, WHEN FLASHING	8019	2 EACH	INSTALL CONTROLLER & CABINET - POLE MOUNT			
	2 EACH S4-4(5) SIGN, 30" x 15", POLE MOUNTED HARDWARE "DOUBLE FINES"	8024	30 L.F.	F & I 2" SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)			
	2 EACH S1-1 SIGN, 36" x 36", (SYMBOL-SCHOOL) -WOOD POST MOUNTED HARDWARE	8027	70 L.F.	F & I 3" SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)			
	2 EACH S4-3 SIGN, 24" x 8" (SCHOOL), WOOD POST MOUNTED HARDWARE	8033	2 EACH	F & I ELECTRICAL HANDHOLE			
	2 EACH S5-2 SIGN, 24" x 30", "END SCHOOL ZONE - WOOD POST MOUNTED HARDWARE	8034	2 EACH	F & I GROUND ROD -3/4" x 10' LENGTH			
		8035	2 EACH	F & I CONNECTOR KIT - TYPE 1			
		8036	2 EACH	F & I CONNECTOR KIT - TYPE 2			
		8043	60 L.F.	F & I ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)			
		8047	250 L.F.	F & I ELECTRICAL CABLE - 1 CONDUCTOR (NO. 8 AWG) TYPE THWN/THHN			
		8048	20 L.F.	F & I NO. 6 STRANDED BARE COPPER GROUND WIRE			
		8050	68 L.F.	F & I WOOD SIGN SUPPORTS 4" X 4"			
		8052	64 S.F.	INSTALL GROUND MOUNTED SIGNS			
		8054	2 EACH	INSTALL BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE			
		8066	2 EACH	F & I CONTROL AND DISTRIBUTION EQUIPMENT (120/240 V, 1 PHASE 3 WIRE SYST.)			
UTILITY LEGEND		WIRING DIAGRAM					
G GAS MAIN		A-B = 3-CONDUCTOR CABLE (NO. 14 AWG)					
W WATER MAIN		C = NO. 6 STRANDED BARE COPPER GROUND WIRE					
S SEWER MAIN		D = 1-CONDUCTOR CABLE (NO. 8 AWG) - 3 TIMES - FOR SERVICE					
E ELECTRIC CABLES		E = 3-CONDUCTOR CABLE (NO. 14 AWG) - FOR PHOTOCELL					
A AERIAL CABLES		PS = PROPOSED UNDERGROUND ELECTRICAL SERVICE					
T TELEPHONE CABLES		PT = PROPOSED TELEPHONE DROP					
D STORM DRAIN		+ = GROUND ROD					
		S/B N/B					
		REVISIONS					
		APPROVALS					
		M. R. R. 10-3-00					
		TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION					
		D. J. Z. 10-3-00					
		ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION					
		S. J. 10-4-00					
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION					
		J. H. 10-4-00					
		DIRECTOR, TRAFFIC & SAFETY					
		MARYLAND DOT - STATE HIGHWAY ADMINISTRATION					
		Office of Traffic & Safety					
		TRAFFIC ENGINEERING DESIGN DIVISION					
		MD 355 at Schifferstadt Rd					
		DRAWN BY: Melody Cook		F.A.P. NO.		TS NO.	
		CHECKED BY:		S.H.A. NO.		TS-4038	
		SCALE: Not to Scale		COUNTY: FREDERICK		T.I.M.S. NO.	
		DATE: 9-14-00		LOG MILE:		E141	
						SHEET NO.	
						1 OF 1	